PR6443786 – QUESTIONS & ANSWERS

1. What is the application of the system? It has been designed to be isolated, interconnected or hybrid ? It is an interconnected one, with network backup, but is does not supply energy to all the system. The solar supply is on an electrical board with sensitive circuits, with network backup in the case of a power outage (please see the plan attached to understand better the configuration)

2. How is the configuration of the panels (how many in series and how many in parallel)? This is important because the load controllers will receive a maximum working voltage, in this case, controllers of 50A - 48V - 2800W will not no support inputs higher than 150Vdc per string. The configuration is intended to use panels with a nominal voltage of 24 V, 32 volt panels will be arranged in series of two, to obtain a nominal system of 48 V. The quantity of parallels is determined based on the capacity of the controllers offered.

3. The 2800W load controller will not be able to deliver the 15kW requested by the system. Therefore a different controller is required to support greater input Voltage inputs and that delivers the requested power. For the 15 kW, three groups with three controllers is the proposed layout. In this case it is important that the equipment offered can supply the requested load with reliability.

4. According to the proposed configuration (15kW of load and 2000Ah of the capacity of charge of the batteries, it will not be possible to cover a full day of autonomy in the absence of sunlight). Would you mind if a different configuration is proposed ? According to the load calculation that was made to design the system, it would cover a full day. However, different configurations can be taken in consideration.

NOTE: It is important to take into account that the system must be a three-phase, in order to supply the loads.